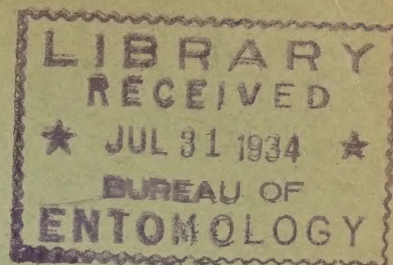


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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF CHEMISTRY AND SOILS
INSECTICIDE DIVISION

Patent List No. 3



A LIST OF
UNITED STATES PATENTS
Issued from 1917 to 1933 inclusive
relating to
SUCTION MACHINES FOR CATCHING INSECTS
Compiled by
R. C. Roark

Washington, D. C.
July 1934

A LIST OF UNITED STATES PATENTS ISSUED FROM 1917 TO 1933, INCLUSIVE,
RELATING TO SUCTION MACHINES FOR CATCHING INSECTS

Compiled by

R. C. Roark

Insecticide Division, Bureau of Chemistry and Soils.

In addition to the 20 patents in this list four patents, namely, 1,488,178, 1,671,404, 1,693,368 and 1,819,551, mentioned in List No. 2 (Insect Traps Using Artificial Light), deal with suction devices. Of these 20 devices, 7 attract insects by an electric light, 3 use bait, 1 uses sound waves, and 9 depend on suction only. Molasses, sugar and honey are mentioned as suitable fly bait.

After being drawn into the apparatus by suction the flies are incinerated by an electrically heated grid in 2 devices; in 2 devices they are drawn into an insecticide such as kerosene or gasoline, and in another device the insects are killed by striking the blades of the revolving fan.

Every effort has been made by the compiler to make this list of patents complete and no discrimination is intended against any patent, mention of which is inadvertently omitted.

The Department of Agriculture assumes no responsibility for the merits or workableness of any of the patents, nor does it recommend any of the inventions listed.

1,233,696 (July 17, 1917; appl. Nov. 15, 1915). FLY CATCHER.
Harry Pakeman, Columbus, Ohio. - An electric fan sucks flies into a receptacle.

1,289,825 (Dec. 31, 1918; appl. Mar. 2, 1917). FLY TRAP.
John B. Lauen, Mountain Park, Okla. - A hand operated fan forms a partial vacuum in this apparatus and flies in a dwelling or stable are sucked into the nozzle as it is carried around.

1,302,972 (May 6, 1919; appl. May 6, 1918). INSECT DESTROYER.
Frank Rea, San Francisco, Calif. - A motor driven fan draws insects to it and kills them by direct contact.

1,308,497 (July 1, 1919; appl. July 6, 1918). INSECT CATCHER.
Benjamin R. Jolly, Raleigh, N.C. - This spring-operated suction device draws flies and other insects forcibly into a cage.

1,311,281 (July 29, 1919; appl. May 1, 1919). FLY CATCHER.
Maik Kurka, Toronto, Ont., Canada. - Flies are sucked into a receptacle by an electric fan.

1,313,203 (Aug. 12, 1919; appl. Dec. 17, 1918). SUCTION FLY CATCHER. Harry Pakeman, Niles, Ohio. - Insects are attracted by molasses, honey or other similar fly bait and are sucked by an electrically operated fan into a trap.

1,328,114 (Jan. 13, 1920; appl. Mar. 15, 1919). FLY TRAP. Alois Bayer and August Klingele, Lorain, Ohio. - In this fly trap the flies are admitted to a compartment above an enclosed bait pan, and from this compartment they are sucked by an electric fan into a fan housing and expelled from the fan housing into a container such as a sack through which the air may readily pass. Sugar or other food-stuff is used as bait.

1,377,201 (May 10, 1921; appl. July 29, 1919; Renewed June 29, 1920). INSECT CATCHER. Benjamin R. Jolly, Raleigh, N. C. - The Raleigh Savings Bank and Trust Co. - Insects such as flies and mosquitoes caught in this manually operated suction device are killed by powdered or fluid insecticide. This device is an improvement over the one described in U. S. Patent 1,308,497, granted B. R. Jolly on July 1, 1919.

1,478,424 (Dec. 25, 1923; appl. Dec. 16, 1921). INSECT EXTERMINATOR. Homer V. Cross, Kenton, Tenn. - One-half to Clifford W. Worden, Buffalo, N.Y. - This device is particularly designed for the destruction of the boll-weevil, but may be used to destroy other flying insect pests. The insects are attracted to an electric lamp and are drawn by suction created by an electric fan into a suitable receiver.

1,484,369 (Feb. 19, 1924; appl. June 6, 1922). FLY CATCHER. Carlo Andreucci, Rome, Italy. - Flies and gnats are attracted by an electric light and are sucked by an electric fan into a gauze bag.

1,497,540 (June 10, 1924; appl. May 14, 1923). INSECT TRAP. Howard E. Bowen, Baltimore, Md. - An electric light provided with a reflector attracts insects to this device, into which they are drawn by an electric fan.

1,517,131 (Nov. 25, 1924; appl. June 29, 1923). DEVICE FOR CATCHING FLIES AND OTHER INSECTS. William H. Thompson, Carthage, N.Y. - This device is provided with an electrically-operated fan which produces a suction and draws flies into the apparatus. The device is portable and can be moved adjacent to an insect whether in flight or at rest.

1,540,518 (June 2, 1925; appl. Oct. 29, 1924). SUCTION FLY-TRAP. Fredrich Drugan, New Haven, Conn. - An electric fan sucks flies into a wire mesh receptacle.

1,583,975 (May 11, 1926; appl. April 21, 1924). INSECT AND GERM TRAP AND DESTROYER. Richard E. Hunt, Toronto, Ont., Canada. - Insects are attracted by an electric light to this device, are drawn into it by an electric fan and are incinerated on an electrically heated screen.

1,586,484 (May 25, 1926; appl. Aug. 9, 1924). INSECT EXTERMINATOR. John S. Suggs, Pensacola, Fla. - Insects attracted by an electric light to this device are forced by an electric fan into kerosene, gasoline or other insecticidal fluid.

1,797,557 (Mar. 24, 1931; appl. Nov. 23, 1929). VACUUM CLEANER. Ernest R. Stine and Matthias R. Bernhardt, Lenoir, N. C. - This vacuum cleaner requires no motive power other than hand power to operate it. A fly swatter which is attached to this device stuns flies so that they can be picked up by the vacuum cleaner.

1,807,076 (May 26, 1931; appl. Oct. 16, 1930). INSECT EXTERMINATOR. Henry N. Sweet, Boston, Mass. - This invention comprises the creation and radiation of sound waves approximating in pitch that of the note produced by the vibrating wings of the insects sought to be exterminated, thereby attracting the same to the vicinity of the sound producer, and then drawing them by suction into a receptacle. An incinerating device such as an electric grid preferably, although not necessarily, is interposed between the suction device and the receptacle.

1,807,550 (May 26, 1931; appl. May 2, 1930). INSECT TRAP. Louis J. L. Rector, Amisville, Va. - Insects are attracted by an electric light and are sucked by an electric fan into a receptacle.

1,812,178 (June 30, 1931; appl. Oct. 27, 1928; in Germany, May 24, 1928). FLY CATCHER. Adolf Springmann, Schramberg, Germany, - Flies are attracted by bait placed over the end of a glass tube and are drawn by suction into the tube.

1,885,854 (Nov. 1, 1932; appl. Feb. 26, 1930; in Argentine Republic, Oct. 24, 1929). APPARATUS FOR KILLING INSECTS. Nestor Montellano, Buenos Aires, Argentina. - Insects in houses or in the neighborhood of lamps outdoors are sucked by an electric fan through a system of pipes into a receptacle.

PATENTEE INDEX

Andreucci, Carlo, 1,484,369
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(Numbers refer to patents cited)

Raleigh Savings Bank and Trust Co., 1,377,201
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